

What is claimed is:

1. A subscriber wireless access system equipped with customer stations wirelessly connected to base stations and accommodating communication terminal devices in the customer stations, the subscriber wireless access system comprising:

at least one exchange for connecting the base stations with a virtual dedicated line network for enabling customer stations wirelessly connected to different base stations to be interconnected via a virtual dedicated line network,

the exchange including a table correlating identification information assigned to the customer stations with virtual dedicated line network connection information allocated for connecting the customer stations; means responsive to receipt of data from a customer station via a subordinate base station for, with reference to the table, sending the data through the virtual dedicated line network to another base station; and means responsive to receipt of data through the virtual dedicated line network for, with reference to the table, converting the data to customer station identification information of a customer station and sending the data to a subordinate base station.

2. A subscriber wireless access system equipped with customer stations wirelessly connected to base stations and accommodating communication terminal devices in the customer stations, the subscriber wireless access system comprising:

exchanges for connecting the base stations with a virtual dedicated line network for enabling customer stations wirelessly connected to different base stations to be interconnected via a virtual dedicated line network,

each exchange including a table correlating identification information assigned to the customer stations with virtual dedicated line network connection information allocated for connecting the customer stations; means responsive to receipt of data from a customer station via a subordinate base station for, with reference to the table, sending the data through the virtual dedicated line network to another base station; and means responsive to receipt of data through the virtual dedicated line network for, with reference to the table, converting the data to customer station identification information of a customer station and sending the data to a subordinate base station,

an exchange being provided in every base station, and

the tables of the exchanges containing identical virtual dedicated line network connection information for the customer stations connected through the virtual dedicated line network.

3. A subscriber wireless access system equipped with customer stations wirelessly connected to base stations and accommodating communication terminal devices in the customer stations, the subscriber wireless access system comprising:

at least one exchange for connecting the base stations with a virtual dedicated line network for enabling customer stations wirelessly connected to different base stations to be interconnected via a virtual dedicated line network,

the exchange including a table correlating identification information assigned to the customer stations with virtual dedicated line network connection information allocated for connecting the customer stations; means responsive to receipt of data from a customer station via a subordinate base station for, with reference to the table, sending the data through the virtual dedicated line network to another base station; and means responsive to receipt of data through the virtual dedicated line network for, with reference to the table, converting the data to customer station identification information of a customer station and sending the data to a subordinate base station,

each customer station being assigned station-specific identification information for identifying the individual customer station and group identification information for identifying it as a member of a customer station group, and

each base station having tables correlating the station-specific identifier information and the group identification information and containing the same group identification information for customer stations belonging to the same group.

4. A subscriber wireless access system equipped with customer stations wirelessly connected to base stations and accommodating communication terminal devices in the customer stations, the subscriber wireless access system comprising:

exchanges for connecting the base stations with a virtual dedicated line network for enabling customer stations wirelessly connected to different base stations to be interconnected via a virtual dedicated line network,

each exchange including a table correlating identification information assigned to the customer stations with virtual dedicated line network connection information allocated for connecting the customer stations; means responsive to receipt of data from a customer station via a subordinate base station for, with reference to the table, sending the data through the virtual dedicated line network to another base station; and means responsive to receipt of data through the virtual dedicated line network for, with reference to the table, converting the data to customer station identification information of a customer station and sending the data to a subordinate base station,

an exchange being provided in every base station,

the tables of the exchanges containing identical virtual dedicated line network connection information for the customer stations connected through the virtual dedicated line network,

each customer station being assigned station-specific identification information for identifying the individual customer station and group identification information for identifying it as a member of a customer station group, and

each base station having tables correlating the station-specific identifier information and the group identification information and containing the same group identification information for customer stations belonging to the same group.

5. A subscriber wireless access system equipped with customer stations wirelessly connected to base stations and accommodating communication terminal devices in the customer stations, the subscriber wireless access system comprising:

at least one exchange for connecting the base stations with a virtual dedicated line network for enabling customer stations wirelessly connected to different base stations to be interconnected via a virtual dedicated line network,

the exchange including a table correlating identification information assigned to the customer stations with virtual dedicated line network connection information allocated for connecting the customer stations; means responsive to receipt of data from a customer station via a subordinate base station for, with reference to the table, sending the data through the virtual dedicated line network to another base station; and means responsive to receipt of data through the virtual dedicated line network for, with reference to the table, converting the data to customer station identification information of a customer station and sending the data to a subordinate base station,

each customer station being assigned station-specific identification information for identifying the individual customer station and group identification information for identifying it as a member of a customer station group,

each base station having tables correlating the station-specific identifier information and the group identification information and containing the same group identification information for customer stations belonging to the same group, and

the tables of the base stations being management information bases and, by utilizing a simple network management protocol system, the group identification information being written to the management information bases using information sent from a management unit connected via the virtual dedicated line network.

6. A subscriber wireless access system equipped with customer stations wirelessly connected to base stations and accommodating communication terminal devices in the customer stations, the subscriber wireless access system comprising:

exchanges for connecting the base stations with a virtual dedicated line network for enabling customer stations wirelessly connected to different base stations to be interconnected via a virtual dedicated line network,

each exchange including a table correlating identification information assigned to the customer stations with virtual dedicated line network connection information allocated for connecting the customer stations; means responsive to receipt of data from a customer station via a subordinate base station for, with reference to the table, sending the data through the

virtual dedicated line network to another base station; and means responsive to receipt of data through the virtual dedicated line network for, with reference to the table, converting the data to customer station identification information of a customer station and sending the data to a subordinate base station,

an exchange being provided in every base station,

the tables of the exchanges containing identical virtual dedicated line network connection information for the customer stations connected through the virtual dedicated line network,

each customer station being assigned station-specific identification information for identifying the individual customer station and group identification information for identifying it as a member of a customer station group,

each base station having tables correlating the station-specific identifier information and the group identification information and containing the same group identification information for customer stations belonging to the same group, and

the tables of the base stations being management information bases and, by utilizing a simple network management protocol system, the group identification information being written to the management information bases using information sent from a management unit connected via the virtual dedicated line network.

7. A subscriber wireless access system according to claim 3, wherein the group identification information assigned to the customer stations are included in wireless frames of the base stations and the customer stations.

8. A subscriber wireless access system according to claim 4, wherein the group identification information assigned to the customer stations are included in wireless frames of the base stations and the customer stations.

9. A subscriber wireless access system according to claim 5, wherein the group identification information assigned to the customer stations are included in wireless frames of the base stations and the customer stations.

10. A subscriber wireless access system according to claim 6, wherein the group identification information assigned to the customer stations are included in wireless frames of the base stations and the customer stations.

11. An exchange for connecting base stations to a virtual dedicated line network to enable customer stations wirelessly connected with different base stations to be interconnected via the virtual dedicated line network, the exchange comprising:

a table correlating identification information assigned to the customer stations with virtual dedicated line network connection information allocated for connecting the customer stations; means for, with reference to the table, sending data received from a customer station via a subordinate base station through the virtual dedicated line network to another base station; and means for, with reference to the table, converting data received through the virtual dedicated line network to customer station identification information and sending the data to a subordinate base station.

12. A base station capable of connecting to a virtual dedicated line network for enabling customer stations wirelessly connected with different base stations to be interconnected via the virtual dedicated line network, the base station comprising:

a table correlating identification information assigned to the customer stations with virtual dedicated line network connection information allocated for connecting the customer stations; means for, with reference to the table, sending data received from a customer station via a subordinate base station through the virtual dedicated line network to another base station; and means for, with reference to the table, converting data received through the virtual dedicated line network to customer station identification information and sending the data to a subordinate base station.

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